TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-04-18-01**	**Date: 20-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	18-04-17	
Sample ID No	:	2017-04-18-01/02	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	18-04-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	503	502
2	Weight of the sample After extraction	B	480	479
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	4.57	4.58
4	Average percentage	%	4.6	

AE W3

Prepared By:
Harshitha

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Lab ID : CP-RW-2017-04-18-01 **Date: 20-04-17**

Sample ID No : 2017-04-18-01/02

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 480

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	7	7	1.46	98.5	90-100
19	47	54	11.25	88.8	71-95
13.2	89	143	29.79	70.2	56-80
4.75	133	276	57.50	42.5	38-54
2.36	54	330	68.75	31.3	28-42
0.3	91	421	87.71	12.3	7-21
0.075	42	463	96.46	3.5	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	5	5	1.04	99.0	90-100
19	48	53	11.06	88.9	71-95
13.2	99	152	31.73	68.3	56-80
4.75	102	254	53.03	47.0	38-54
2.36	85	339	70.77	29.2	28-42
0.3	73	412	86.01	14.0	7-21
0.075	51	463	96.66	3.3	2-8

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-04-18-01**	**Date: 20-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	18-04-17	
Sample ID No	:	2017-04-18-01/01	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	18-04-17	

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	502
2	Weight of the sample After extraction	B	479	478
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.58	4.78
4	Average percentage	%	4.7	

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Lab ID : CP-RW-2017-04-18-01 **Date: 20-04-17**

Sample ID No : 2017-04-18-01/01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	6	6	1.25	98.7	90-100
19	46	52	10.86	89.1	71-95
13.2	90	142	29.65	70.4	56-80
4.75	135	277	57.83	42.2	38-54
2.36	55	332	69.31	30.7	28-42
0.3	92	424	88.52	11.5	7-21
0.075	40	464	96.87	3.1	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	3	3	0.63	99.4	90-100
19	55	58	12.13	87.9	71-95
13.2	101	159	33.26	66.7	56-80
4.75	100	259	54.18	45.8	38-54
2.36	81	340	71.13	28.9	28-42
0.3	75	415	86.82	13.2	7-21
0.075	46	461	96.44	3.6	2-8

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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID : CP-RW-2017-04-08-01 **Date: 13-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer Reference : BBMP/EE(YNK.D)/W.O/141/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-04-17

Sample ID No : 2017-04-08-01/01

Type of Mix : Coarse Aggregate for BC (Bituminous Concrete)

Date of test : 10-04-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.9	299.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	70.6	67.9
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	227.8	230.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.5
5	Aggregate impct value	(B/A)*100	23.62	22.70
6	Aggregate impct value (Mean of two tests)		23.16	

Note:-

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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
(IS:2386 Part III)

Lab ID	:	CP-RW-2017-04-08-01	**Date: 13-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-04-17	
Sample ID No	:	2017-04-08-01/01	
Type of Mix	:	Coarse Aggregate for BC (Bituminous Concrete)	
Date of test	:	10-04-17	

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2281	2250	
2	Weight of Empty Basket suspended in water	A2	grams	791	728	
3	Weight of Aggregates in water	A=A1-A2	grams	1490	1522	
4	Weight of Saturated Surface Dry aggregate	B	grams	2389	2441	
5	Weight of oven dried aggregate	C	grams	2384	2435.5	
6	Specific gravity	C/(B-A)		2.65	2.65	2.65
7	Apparent Specific gravity	C/(C-A)		2.67	2.67	2.67
8	Water absorption	100*(B-C) /C	Percent	0.21	0.13	0.22

Note:-
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS:2386 Part 1)

Lab ID	:	**CP-RW-2017-04-08-01** **Date: 13-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-04-17
Sample ID No	:	2017-04-08-01/01
Type of Mix	:	Coarse Aggregate for BC (Bituminous Concrete)
Date of test	:	10-04-17

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-16
Flakiness Index	13.5%	Combined Flakiness & Elongation Index for BC is Maximum 35%
Elongation Index	10.3%	
Combined Flakiness and Elongation Index for BC	23.8%	

Note:
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TESTS RESULTS ON STABILITY OF MIX

Date: 13-04-17

Lab ID	:	**CP-RW-2017-04-08-01**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	08-04-17
Sample ID No	:	2017-04-08-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	08-04-17

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.51	10.99	10KN(min)
2	Marshal flow at 60°C, mm	3.17	3.54	2-4
3	Percent air Voids	4.16	4.28	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.97	14.75	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.61	72.12	65-75
6	Density, g/cc	2.31	2.32	–

Note:-
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2017-04-08-01 **Date: 13-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer Reference : BBMP/EE(YNK.D)/W.O/141/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-04-17

Sample ID No : 2017-04-08-01/01

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 08-04-17

Oven Dry Weight(gm) : 5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	92	92	1.8	98.2	90-100
9.5	705	797	15.9	84.1	70-88
4.75	891	1688	33.8	66.2	53-71
2.36	573	2261	45.2	54.8	42-58
1.18	501	2762	55.2	44.8	34-48
0.6	510	3272	65.4	34.6	26-38
0.3	531	3803	76.1	23.9	18-28
0.15	450	4253	85.1	14.9	12-20
0.075	348	4601	92.0	8.0	4-10
PAN	399	5000	100	0.0	0

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AE-03 Page 1/1

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-04-08-01**	**Date: 13-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-04-17	
Sample ID No	:	2017-04-08-01/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	08-04-17	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.5	Minimum Retained Coating 95%
2	98.0	2.0		
3	99.0	1.0		

Note:
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-04-19-01**	**Date: 22-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	19-04-17	
Sample ID No	:	2017-04-19-01/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	19-04-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	503	502
2	Weight of the sample After extraction	B	475	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.57	5.58
4	Average percentage	%	5.6	

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Prepared By:
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Lab ID : **CP-RW-2017-04-19-01**

Sample ID : **2017-04-19-01/01**

Date: 22-04-17

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	65	67	14.1	85.9	70-88
4.75	114	181	38.1	61.9	53-71
2.36	85	266	56.0	44.0	42-58
1.18	27	293	61.7	38.3	34-48
0.6	13	306	64.4	35.6	26-38
0.3	54	360	75.8	24.2	18-28
0.15	35	395	83.2	16.8	12-20
0.075	55	450	94.7	5.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	1	1	0.2	99.8	90-100
9.5	64	65	13.7	86.3	70-88
4.75	118	183	38.6	61.4	53-71
2.36	84	267	56.3	43.7	42-58
1.18	29	296	62.4	37.6	34-48
0.6	11	307	64.8	35.2	26-38
0.3	56	363	76.6	23.4	18-28
0.15	37	400	84.4	15.6	12-20
0.075	52	452	95.4	4.6	4-10

Note:
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-04-19-01**	**Date: 22-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	19-04-17	
Sample ID No	:	2017-04-19-01/02	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	19-04-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	505	503
2	Weight of the sample After extraction	B	475	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.94	5.96
4	Average percentage	%	6.0	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID : CP-RW-2017-04-19-01
Sample ID : 2017-04-19-01/02

Date: 22-04-17

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	90-100
9.5	70	70	14.7	85.3	70-88
4.75	109	179	37.7	62.3	53-71
2.36	59	238	50.1	49.9	42-58
1.18	41	279	58.7	41.3	34-48
0.6	47	326	68.6	31.4	26-38
0.3	60	386	81.3	18.7	18-28
0.15	32	418	88.0	12.0	12-20
0.075	34	452	95.2	4.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	102	107	22.6	77.4	70-88
4.75	84	191	40.4	59.6	53-71
2.36	89	280	59.2	40.8	42-58
1.18	27	307	64.9	35.1	34-48
0.6	18	325	68.7	31.3	26-38
0.3	52	377	79.7	20.3	18-28
0.15	26	403	85.2	14.8	12-20
0.075	42	445	94.1	5.9	4-10

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

Prepared By:
Harshitha

AE-02

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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